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1 [Rx: Treating bugs as allergies—a safe method to survive software failures](#)

[Peng Qin, Joseph Tuck, Yuanyuan Zhong, Jagadeesan Sundaresan](#)

August 2007

Transactions on Computer Systems (TOCS), Volume 25 Issue 3

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (454.71 KB)

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Many applications demand availability. Unfortunately, software failures greatly reduce system availability. Prior work on surviving software failures suffers from one or more of the following limitations: required application restructuring, inability ...

Keywords: Availability, Bug, Reliability, Software Failure

2 [Melange: creating a "functional" internet](#)

[Anil Madhavapeddy, Alex Ho, Tim Deegan, David Scott, Ripduman Sohan](#)

June 2007

EuroSys '07: Proceedings of the 2nd ACM SIGOPS/EuroSys European Conference on Computer Systems 2007
Publisher: ACM

Full text available: Pdf (760.25 KB)

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Most implementations of critical Internet protocols are written in type-unsafe languages such as C or C++ and are regularly vulnerable to serious security and reliability problems. Type-safe languages eliminate many errors but are not used to due to ...

Also published in:

 June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

3 [Pointer analysis for structured parallel programs](#)

[Radu Rugina, Martin C. Rinard](#)

 January 2003 **Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 1

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This paper presents a novel interprocedural, flow-sensitive, and context-sensitive pointer analysis algorithm for multithreaded programs that may concurrently update shared pointers. The algorithm is designed to handle programs with structured parallel ...

Keywords: Pointer analysis